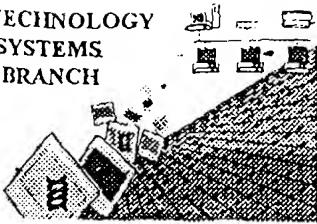


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/900,063B
Source: 1600
Date Processed by STIC: 10/30/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/2003



RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt
 Output Set: N:\CRF4\10302003\I900063B.raw

3 <110> APPLICANT: Rothschild, Max F.
 4 Vincent, Amy L.
 5 Tuggle, Christopher K.
 7 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED LITTER
 8 SIZE IN ANIMALS
 10 <130> FILE REFERENCE: P02285UD5
 12 <140> CURRENT APPLICATION NUMBER: US 09/900,063B
 13 <141> CURRENT FILING DATE: 2001-07-06
 15 <150> PRIOR APPLICATION NUMBER: US 08/812,208
 16 <151> PRIOR FILING DATE: 1997-03-06
 18 <150> PRIOR APPLICATION NUMBER: US 08/742,805
 19 <151> PRIOR FILING DATE: 1996-11-01
 21 <150> PRIOR APPLICATION NUMBER: US 60/022,180
 22 <151> PRIOR FILING DATE: 1996-07-19
 24 <160> NUMBER OF SEQ ID NOS: 18
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 20
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Porcine
 33 <400> SEQUENCE: 1
 34 cccaaaacag caggagaacg
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 20
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Porcine
 42 <400> SEQUENCE: 2
 43 ggcaagtgg taaaaatgga
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 492
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Porcine
 52 <220> FEATURE:
 53 <221> NAME/KEY: allele
 54 <222> LOCATION: (240)..(240)
 55 <223> OTHER INFORMATION: r = a or g
 57 <400> SEQUENCE: 3
 58 aagtcaacaa agatggaga ctggcggtgc tcccaaaaca gcaggagaac ggcgaccggc 60
 60 cggagaaggc tggcgccccctt gaaaccagca aggaatacgc ccaggtgtcc cgggtgtatgg 120
 62 ataaccacat cctggtgtta gtgcaggatc cgcgagctcg aaacgtggct ccgtttgaag 180
 64 aaccaaccaa ggagaccccg ccattccggc cgcagaatcc agctgcgaaa gacctggcg 240
 66 gcttcaccac ggccccggc cactgcagac acccgctggg tgggctggat tacctcgatc 300
 68 ccgcaggctt tatgcacitcc tttcagtgag agcttggttc atggatgtat gggttacaag 360

Corrs No. 1000
Corrected Dif. In Seq No. 1000
pp 1-2

"g" is at location 240

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

70 gtggggttt tttcaggtcg cactacgtga aatgcactct accagagaaa gctcgaaaaat 420
 72 ggggttagaa tgacactacc cagactcaca gttcactcct cttcatgctc catttcaac 480
 74 cacttgccctc tt 492
 77 <210> SEQ ID NO: 4
 78 <211> LENGTH: 20
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Unknown
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 84 were used to design the degenerate primer
 87 <220> FEATURE:
 88 <221> NAME/KEY: misc_difference
 89 <222> LOCATION: (13)..(13) C is at location 13
 90 <223> OTHER INFORMATION: y = c or t
 92 <400> SEQUENCE: 4
 93 tcacaaggta aacaaagatg 20
 96 <210> SEQ ID NO: 5
 97 <211> LENGTH: 20
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Unknown
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 103 were used to design the degenerate primer
 106 <220> FEATURE:
 107 <221> NAME/KEY: misc_feature no r's are present in the sequence
 108 <223> OTHER INFORMATION: r = g or a
 110 <220> FEATURE:
 111 <221> NAME/KEY: misc_difference
 112 <222> LOCATION: (3)..(3) g is at location 3
 113 <223> OTHER INFORMATION: r = g or a
 115 <220> FEATURE:
 116 <221> NAME/KEY: misc_difference g is at location 9
 117 <222> LOCATION: (9)..(9)
 118 <223> OTHER INFORMATION: r = g or a
 120 <220> FEATURE:
 121 <221> NAME/KEY: misc_difference g is at location 16
 122 <222> LOCATION: (16)..(16)
 123 <223> OTHER INFORMATION: r = g or a
 125 <400> SEQUENCE: 5
 126 tgagaaaaa ggcaatgtgt 20
 129 <210> SEQ ID NO: 6
 130 <211> LENGTH: 20
 131 <212> TYPE: DNA
 132 <213> ORGANISM: Porcine
 134 <400> SEQUENCE: 6
 135 cggccgcaga atcctgctgc 20
 138 <210> SEQ ID NO: 7
 139 <211> LENGTH: 24
 140 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt
 Output Set: N:\CRF4\10302003\I900063B.raw

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141 <213> ORGANISM: Porcine
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144 accccaccc tt gtaacccatc atcc                                24
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 18
149 <212> TYPE: DNA
150 <213> ORGANISM: Porcine
152 <400> SEQUENCE: 8
153 caagggtggaa acatgaqt                                18
156 <210> SEQ ID NO: 9
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Porcine
161 <400> SEQUENCE: 9
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165 <210> SEQ ID NO: 10
166 <211> LENGTH: 20
167 <212> TYPE: DNA
168 <213> ORGANISM: Porcine
170 <400> SEQUENCE: 10
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176 <212> TYPE: DNA
177 <213> ORGANISM: Porcine
179 <400> SEQUENCE: 11
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183 <210> SEQ ID NO: 12
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Porcine
188 <400> SEQUENCE: 12
189 gattattgtc tgggcagtgg                                20
192 <210> SEQ ID NO: 13
193 <211> LENGTH: 23
194 <212> TYPE: DNA
195 <213> ORGANISM: Porcine
197 <400> SEQUENCE: 13
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201 <210> SEQ ID NO: 14
202 <211> LENGTH: 566
203 <212> TYPE: DNA
204 <213> ORGANISM: Porcine
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (36)..(36)
210 <223> OTHER INFORMATION: n = unknown nucleotide position 36
212 <400> SEQUENCE: 14
> 213 gattattgtc tgggcagtgg tcttctctgt ctatcnaccc ccatccccatt catggctctc      60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285USS5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

215	agggtataat	ggccaaaaaa	aagacaagac	aaaaatgatg	gaaacctaca	gataattyaa	120											
217	gcacctcatt	ttgccattag	ctgcattagc	cataaaaaaa	aaaaaaaaaa	cctttctca	180											
219	gtgctagaaa	aaaacagaat	agactcattt	gaaactgatc	ttctctctac	caaaggagtg	240											
221	agcgagttg	tgaatagta	aacgtctgac	aagaacagca	aataatccca	ctagtaattt	300											
223	cagaatccgc	ctcctcaatt	agccagaatt	caactgtgatg	ctggcctcta	taattattat	360											
225	ttgtctcac	cactgattag	tttcacatca	tgaaaatgc	atgtcattta	gtttcacrt	420											
227	gcctcagaac	caacccta	atccctac	catatccctg	tagcagctat	tcgaagatca	480											
229	caagtggg	acatgtgya	tttatcttt	ctcttacatt	attttagagc	atggtggcct	540											
231	qcatccggc	caaaaataaa	aggatt				566											
234	<210>	SEQ ID NO:	15															
235	<211>	LENGTH:	518															
236	<212>	TYPE:	DNA															
237	<213>	ORGANISM:	Porcine															
240	<220>	FEATURE:																
241	<221>	NAME/KEY:	misc_feature															
242	<222>	LOCATION:	(49)..(49)															
243	<223>	OTHER INFORMATION:	n = unknown in nucleotide position 49															
245	<220>	FEATURE:																
246	<221>	NAME/KEY:	misc_feature															
247	<222>	LOCATION:	(67)..(67)															
248	<223>	OTHER INFORMATION:	n = unknown in nucleotide position 67															
250	<400>	SEQUENCE:	15															
>	251	gtacacacac	acacacacac	acacacacc	gttaagctnt	ctttctgaat	60											
	253	catgcnacc	cgaggccac	ccatagagga	gtgtggtgg	gggtgcctt	120											
	255	gccctgcata	cctacaccca	ctagctcaa	gatgtcatcc	ctggccctggc	180											
	257	ctgcttctgt	caccagcaga	atggccagt	cattgagcgg	acccatata	240											
	259	ggcttctggc	tttttcttag	acagtccact	ccggaaaaac	ctgagatctt	300											
	261	tctccggaaa	aggaaacatt	cgcctgtgg	tggaaagccgg	ggggggatgg	360											
	263	accaactaga	cgctqactta	ccacaaggaa	gggtaagcat	tgcgtgtct	420											
	265	cacacgagt	ttctctctct	gtggccaga	ggaacactgc	ttctgggtt	480											
	267	gcttggagt	tcccgtcatg	gctcaagtgg	aacgaatc		518											
	270	<210>	SEQ ID NO:	16														
	271	<211>	LENGTH:	133														
	272	<212>	TYPE:	DNA														
	273	<213>	ORGANISM:	Homo sapiens														
	275	<400>	SEQUENCE:	16														
	276	gacagttacc	tcctggaaaa	cctgagatct	ttaaatgtcg	ttctcccaat	60											
	278	tcacctgctg	gtggaggcct	gggacagatg	gaggactcc	taccaattat	120											
	280	accacaggga	agg				133											
	283	<210>	SEQ ID NO:	17														
	284	<211>	LENGTH:	53														
	285	<212>	TYPE:	PRT														
	286	<213>	ORGANISM:	Homo sapiens														
	288	<400>	SEQUENCE:	17														
	290	Gly	Gln	Leu	Pro	Pro	Gly	Lys	Pro	Glu	Ile	Phe	Lys	Ser	Pro	Phe	Cys	
	291	1			5		10				15							
	294	Arg	Ser	Pro	Asn	Lys	Glu	Thr	Phe	Thr	Glu	Ala	Arg	Pro	Gly	Thr	Asp	
	295				20		25				30							
	298	Gly	Gly	Leu	Pro	Thr	Asn	Lys	Pro	Ala	Asn	Tyr	Ser	Leu	Thr	Tyr	Tyr	His

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

299	35	40	45
302	Arg Glu Gly Thr Lys		
303	50		
306	<210> SEQ ID NO: 18		
307	<211> LENGTH: 132		
308	<212> TYPE: DNA		
309	<213> ORGANISM: Porcine		
311	<400> SEQUENCE: 18		
312	acagtcacct ccggaaaaac ctgagatctt caaatgtcgt tctccgaaa aggaaacatt	60	
314	cgcctgctgg tggaaaggccgg gggccggatgg aggacttcct accaactaga cgctgactta	120	
316	ccacaaggaa gg	132	

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003
TIME: 10:05:44

Input Set : A:\Rothschild_P02285US5.ST25.txt
Output Set: N:\CRF4\10302003\I900063B.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:14; N Pos. 36
#:15; N Pos. 49,67

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:44

Input Set : A:\Rothschild_P02285USS5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

13 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

41 Repeated in SeqNo=15